

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8562E

The Keysight (formerly Agilent/HP) 8562E is a high-performance portable spectrum analyzer operating from 30 Hz to 13.2 GHz. Designed for fast DLP execution and robust dynamic range, it provides a Displayed Average Noise Level (DANL) of -151 dBm and features precision 1 Hz to 100 Hz digitally implemented resolution bandwidths to optimize measurement speed. Compliant with MIL-T-28800 ruggedness standards, the 8562E is well-suited for demanding manufacturing, R&D, and wireless communication applications, offering advanced capabilities like adjacent channel power, channel power, and gated video measurements as standard.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488)
Display	Monochrome CRT
Warm-up Time	5 minutes

Physical

Operating Temperature	-10 to 55 °C °C
Weight	20 kg

Frequency Specifications

Frequency Range	30 Hz to 13.2 GHz (Continuous sweep)
Frequency Readout Accuracy	Span > 0: $\pm(\text{Frequency Readout} \times \text{Frequency Reference Error} + 5\% \times \text{Span} + 15\% \times \text{RBW} + 10 \text{ Hz})$
Sweep Time Range	50 ms to 100 s (Span > 0 Hz); 50 μ s to 6000 s (Zero Span)
Resolution Bandwidth (RBW) Range	1 Hz to 2 MHz (1, 3, 10 sequence)
Digital RBW Filters	1 Hz to 100 Hz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz
Phase Noise (SSB) at 10 kHz Offset	-113 dBc/Hz (Typical, f = 1 GHz)

Amplitude Specifications

Maximum Safe Input Level (Continuous Wave)	+30 dBm (1 W)
Maximum Safe Input Level (DC Voltage)	0 Vdc (Standard DC coupled)
Display Range (Linear Scale)	10 divisions
Reference Level Range	-119.9 dBm to +30.0 dBm
Input Attenuator Range	0 to 70 dB
Input Attenuator Step Size	10 dB

Inputs and Outputs

RF Input Connector Type	Type-N (Female)
RF Input Impedance	50 Ω
10 MHz Reference Input	BNC (Female), -2 to +10 dBm
10 MHz Reference Output	BNC (Female), 0 dBm nominal
External Trigger Input	BNC (Female)

General and Power Specifications

Power Consumption (Maximum)	180 W
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Environmental and Compliance

Shock and Vibration Tolerance	MIL-T-28800 rugged
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Frequency

Frequency Span Accuracy	±1%
Internal Timebase Aging Rate	1 × 10 ⁻⁷ / year
Zero Span Sweep Time	50 μs to 6000 s
Non-Zero Span Sweep Time	50 ms to 100 s

Amplitude & Dynamic Range

Calibrator Signal	300 MHz, -10 dBm
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Inputs & Outputs

IF Output Frequency	310.7 MHz
Video Output	0 to 1 V full scale (into 50 Ω)
Probe Power	+15 Vdc, -12.6 Vdc, 150 mA max
Audio Demodulation	AM and FM (with built-in speaker and front-panel earphone jack)

Environmental

Storage Temperature	-51 °C to +71 °C
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Dynamic Range & Spurious

Residual Responses	< -90 dBm (0 dB input attenuation, > 200 kHz)
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Sweep

Sweep Time Accuracy (Span > 0 Hz)	±10%
Sweep Time Accuracy (Zero Span)	±1%

Compliance

EMC / EMI Compliance	MIL-STD-461C, CISPR 11 / EN 55011 Group 1 Class A
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TECHNOLOGY

Spectrum Analysis

APPLICATIONS

Wireless communication testing, RF/microwave manufacturing, R&D

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